IN THE CLAIMS:

Please cancel claim 27 without prejudice and amend the claims as follows:

(Currently Amended) A seismic survey system for use in water, comprising:
 a source array;

an independently steerable deflector device coupled to the source array, wherein the deflector device controls a position of the source array by changing an angle of attack of the deflector device with respect to a direction of a tow while maintaining the source array in a substantially inline direction, and wherein the deflector device is submerged underwater; and

a positioning system to determine a location of the source array;

an acoustical transducer and receiver coupled to the source array; and

a controller for adjusting the deflector device to steer clear of an obstruction

located by the acoustical transducer and receiver.

- 2. (Previously Presented) The seismic survey system of claim 1, wherein the source array trails directly behind the independently steerable deflector device in the inline direction.
- 3. (Withdrawn and Previously Presented) The seismic survey system of claim 1, wherein the deflector device trails the source array in the inline direction.
- 4. (Withdrawn and Previously Presented) The seismic survey system of claim 1, wherein the deflector device is disposed within the source array.
- 5. (Currently Amended) The seismic survey system of claim 1, wherein the positioning system comprises a positioning unit mounted on the source array, and wherein the positioning unit provides [[a]] the controller with the location of the source array.

- 6. (Original) The seismic survey system of claim 5, wherein the positioning system is selected from a global positioning system, an acoustic network, and a laser system.
- 7. (Original) The seismic survey system of claim 5, wherein the positioning system is a satellite positioning system.
- 8. (Currently Amended) The seismic survey system of claim 1, further comprising:

a computerized wherein the controller for controlling controls the position of the deflector device.

- 9. (Previously Presented) The seismic survey system of claim 13, wherein the desired position is the same position as in a previous seismic survey.
- 10. (Withdrawn and Previously Presented) The seismic survey system of claim 13, wherein the desired position is a set distance from an edge of a previous seismic survey.
- 11. (Withdrawn) The seismic survey system of claim 10, wherein the desired position avoids gaps in coverage.
- 12. (Original) The seismic survey system of claim 8, further comprising:
 a positioning unit attached to the source array, wherein the positioning unit provides a signal to inform the controller of a current position of the source array.
- 13. (Original) The seismic survey system of claim 12, wherein a seismic source on the source array is triggered when the source array is at a desired position.

- 14. (Original) The seismic survey system of claim 8, wherein the controller is positioned at a location selected from a towing vessel, the deflector device, and combinations thereof.
- 15. (Original) The seismic survey system of claim 1, wherein the deflector device comprises:

one or more wings; and

- a central body, wherein the one or more wings are disposed adjacent to the central body.
- 16. (Original) The seismic survey system of claim 15, wherein the one or more wings are in a generally vertical arrangement.
- 17. (Withdrawn) The seismic survey system of claim 15, wherein the one or more wings are in a generally horizontal arrangement.
- 18. (Currently Amended) The seismic survey system of claim 15, further comprising:

an actuator disposed adjacent the central body, wherein [[a]] <u>the</u> controller sends a signal to the actuator, and wherein the actuator moves the one or more wings.

- 19. (Original) The seismic survey system of claim 18, wherein the actuator uses a motive force selected from electrical and hydraulic.
- 20. (Original) The seismic survey system of claim 18, wherein the central body and the actuator are made of a material selected from metal, composite and combinations thereof.
- 21. (Original) The seismic survey system of claim 15, wherein the total area of the one or more wings is between about 1 and about 7 square meters.

- 22. (Previously Presented) The seismic survey system of claim 15, wherein the one or more wings are constructed of a material selected from metal, composite or combinations thereof.
- 23. (Original) The seismic survey system of claim 15, wherein the one or more wings are constructed of a metal skin covering a foam core.
- 24. (Original) The seismic survey system of claim 23, wherein the metal skin is selected from titanium and stainless steel.
- 25. (Original) The seismic survey system of claim 1, wherein the source array comprises one or more sub-arrays and wherein the sub-arrays are coupled to adjacent sub-arrays within the source array by a distance rope.
- 26. (Original) The seismic survey system of claim 1, further comprising:
 a second independently steerable deflector device coupled to a second source array for controlling a second position of the second source array.
- 27. (Canceled)
- 28. (Currently Amended) The seismic survey system of claim [[27]]1, wherein the acoustical transducer and receiver are sonar devices.
- 29. (Currently Amended) The seismic survey system of claim [[27]]1, wherein the obstruction is selected from the group consisting of installed constructions, moored devices, floating devices, lead-in cables, umbilicals, towed equipment and combinations thereof.
- 30. (Currently Amended) The seismic survey system of claim [[27]]1, wherein the acoustic transducer and receiver are pointed in a given direction.

- 31. (Withdrawn) The seismic survey system of claim 27, wherein the acoustic transducer and receiver sweeps in many directions.
- 32. (Withdrawn) A method of positioning a source array in tow behind a vessel, comprising:

determining the position of the source array; and

independently steering a deflector device coupled to the source array to move the source array to a desired position.

- 33. (Withdrawn) The method of claim 32, wherein the deflector device is coupled to a front end of the source array.
- 34. (Withdrawn) The method of claim 32, wherein the deflector device is coupled to a back end of the source array.
- 35. (Withdrawn) The method of claim 32, wherein the deflector device is coupled within the source array.
- 36. (Withdrawn) The method of claim 32, wherein the step of determining the position further comprises: determining the position of the source array.
- 37. (Withdrawn) The method of claim 32, further comprising: controlling the deflector device to steer the source array to the desired position.
- 38. (Withdrawn) The method of claim 37, wherein the desired position is a same position as in a previous seismic survey.
- 39. (Withdrawn) The method of claim 37, wherein the desired position is a set distance from an edge of a previous seismic survey.

- 40. (Withdrawn) The method of claim 39, wherein the desired position avoids gaps in coverage.
- 41. (Withdrawn) The method of claim 37, further comprising: determining the position of the source array, providing the position to the controller.
- 42. (Withdrawn) The method of claim 41, further comprising:
 triggering a seismic source on the source array when the source array is at a desired position.
- 43. (Withdrawn) The method of claim 37, wherein the deflector device comprises: one or more wings;

a central body; and

an actuator disposed within the central body, wherein the one or more wings are disposed adjacent to the central body.

44. (Withdrawn) The method of claim 43, further comprising:

transmitting a control signal to the actuator;

moving the one or more wings with the actuator, wherein the movement of the one or more wings steers the source array.

- 45. (Withdrawn) The method of claim 44, wherein the actuator uses a motive force selected from electrical and hydraulic.
- 46. (Withdrawn) The method of claim 43, wherein the central body and the actuator are made of stainless steel.
- 47. (Withdrawn) The method of claim 43, wherein the total surface area of the one or more wings is between about 1 and about 7 square meters.

- 48. (Withdrawn) The method of claim 43, wherein the one or more wings are constructed of a material selected from metal, composite or combinations thereof.
- 49. (Withdrawn) The method of claim 43 wherein the one or more wings are constructed of a metal skin covering a foam core.
- 50. (Withdrawn) The method of claim 49, wherein the metal skin is selected from titanium and stainless steel.
- 51. (Withdrawn) The method of claim 32, wherein the source array comprises one or more sub-arrays, the method further comprises:

coupling the sub-arrays to adjacent sub-arrays within the source array with distance ropes.

52. (Withdrawn) The method of claim 32, further comprising:

coupling a second independently steerable deflector device to a second source array for controlling a second position of the second source array.

53. (Withdrawn) The method of claim 32, further comprising:

detecting acoustic signals indicating obstructions in the path of the source array; and

adjusting the deflector device to steer clear of an obstruction detected by the acoustical transducer and receiver.

54. (Withdrawn) The method of claim 53, further comprising:

operating an acoustical transducer and receiver in a range typical for sonar devices.

55. (Withdrawn) The method of claim 53, wherein the obstruction is selected from the group consisting of installed constructions, moored devices, floating devices, lead-in cables and combinations thereof.

- 56. (Withdrawn) The method of claim 55, further comprising: pointing the acoustic transducer and receiver in a given direction.
- 57. (Withdrawn) The method of claim 53, further comprising: sweeping the acoustic transducer and receiver in many directions.
- 58. (Withdrawn) A system for changing the position of a source array towed by a vessel in a body of water comprising:
- a deflector coupled to the source array, wherein the deflector includes a wing that provides a lateral force to the source array as the source array is towed through the water;
- an actuator for controllably varying the angle between the deflector wing and the direction of water flow;
 - a sensor for indicating the position of the source array; and
- a controller for providing a command to the actuator to vary the angle of attack of the deflector body.
- 59. (Withdrawn) The system of claim 58, wherein the command from the controller to the actuator causes the deflector to steer to a desired position.
- 60. (Withdrawn) The system of claim 58, wherein the deflector is stabilized against forces transverse to the direction of tow by drag forces resulting from towing the source array from the deflector.
- 61. (Withdrawn) The system of claim 60, wherein the deflector is further stabilized against forces transverse to the direction of tow by the deflector having a lower end that is weighted and an upper end that is buoyant.
- 61. (Cancelled)

- 62. (Withdrawn) The system of claim 58, wherein the actuator is selected from a hydraulic actuator, an electrical motor, and combinations thereof.
- 64. (Cancelled)
- 63. (Withdrawn) A seismic survey system for use in water, comprising:
 - a source array towed by a first tow cable;
 - a deflector deflecting a second tow cable;
 - a distance rope coupling the first tow cable to the second tow cable; and
- a winch attached to the distance rope, wherein the winch adjusts a length of the distance rope to modify a position of the source array.
- 64. (Withdrawn) The seismic survey system of claim 63, further comprising: a positioning system unit mounted on the source array.
- 65. (Withdrawn) The seismic survey system of claim 63, further comprising: a controller for controlling the position of the source array.
- 66. (Withdrawn) The seismic survey system of claim 65, wherein the position is the same position as in a previous seismic survey.
- 67. (Withdrawn) The seismic survey system of claim 65, wherein the position is a set distance from an edge of a previous seismic survey.
- 68. (Withdrawn) The seismic survey system of claim 67, wherein the position avoids gaps in coverage.
- 69. (Withdrawn) The seismic survey system of claim 65, further comprising:
 a positioning system unit attached to the source array, wherein the positioning system unit provides a signal to inform the controller of the position of the source array.

- 70. (Withdrawn) The seismic survey system of claim 69, wherein a seismic source on the source array is triggered when the source array is at a desired location.
- 71. (Withdrawn) The seismic survey system of claim 66, wherein the controller is positioned at a location selected from a towing vessel, the winch, and combinations thereof.
- 72. (Withdrawn) The seismic survey system of claim 63, wherein the winch comprises:
 - a reel for winding the distance rope onto the winch; an actuator for rotating the reel; and a housing adjacent to the reel.
- 73. (Withdrawn) The seismic survey system of claim 72, wherein the actuator uses a motive force selected from electrical and hydraulic.
- 74. (Withdrawn) The seismic survey system of claim 72, wherein the housing and the actuator are made of stainless steel.
- 75. (Withdrawn) The seismic survey system of claim 63, further comprising:
 an acoustical transducer and receiver coupled to the source array; and
 a controller, wherein the controller adjusts the winch to steer clear of an
 obstruction located by the acoustical transducer and receiver.
- 76. (Withdrawn) The seismic survey system of claim 75, wherein the acoustical transducer and receiver operate in a range typical of sonar equipment.
- 77. (Withdrawn) The seismic survey system of claim 75, wherein the obstruction is selected from the group consisting of installed constructions, moored devices, floating devices, lead-in cables and combinations thereof.

- 78. (Withdrawn) The seismic survey system of claim 75, wherein the acoustic transducer and receiver are pointed in a given direction.
- 79. (Withdrawn) The seismic survey system of claim 75, wherein the acoustic transducer and receiver sweeps in many directions.
- 80. (Withdrawn) The system of claim 58, wherein the sensor is a satellite positioning system sensor.
- 81. (Withdrawn) The system of claim 58, wherein the deflector is not supported by a float supporting the source array.
- 82. (Currently Amended) A seismic survey system for use in water, comprising:
 - a source array having a first sub-array and a second sub-array;
 - a positioning system to determine a location of the source array;
 - a first deflector device coupled to the first sub-array;
- a second deflector device coupled to the second sub-array, wherein the first and second deflector devices are:
 - configured to control a position of the source array by changing an angle of attack of the first and second deflector devices with respect to a direction of a tow while maintaining the source array in a substantially inline direction;
 - configured to position the source array on both sides of a center line of a towing vessel during a seismic survey; and

submerged underwater;

- an acoustical transducer and receiver coupled to the source array; and
- a controller, wherein the controller adjusts the first deflector device and the second deflector device to steer clear of an obstruction located by the acoustical transducer and receiver.
- 83. (Previously Presented) The seismic survey system of claim 1, wherein the source array comprises:

a float disposed on the surface of the water;

one or more sources coupled to the float such that the sources are suspended below the float; and

wherein the deflector device is also suspended below the float.